

ABSTRACT

5 A variable speed electrical motor has windings and a rotor disposed within a motor housing. The motor is capable of operating at one of a plurality of discrete operating speeds. The electrical circuitry for each speed includes both a start winding for only that speed and a start capacitor for only that speed. In an optional embodiment, a switch for varying the speed of the rotor is disposed at a location external of the motor housing. The variable speed electric motor is ideal for use in a water recreational combination, such as a spa, hot tub or recirculating bath tub.